



Hakioawa Operations and Maintenance Plan 2021 (DOH V)

BACKGROUND

An 18 month “O and M Plan” has provided maintenance to the pre-existing irrigation and soil erosion control (wattles and check dams) infrastructure, outplanted 5000 new native plants and re-measured soil monitoring data in a previous 2018-2019 15ha (37A) DOH Project Site in Hakioawa Watershed.

DELIVERABLES

- Out planted 5000 native plants on previously established irrigated planting corridors
- Installed twenty (20) check dams
- Read eight (8) Soil Erosion Pin Transects and determine reduction in sediment load
- Took 28 baseline photopoints and 6 drone images for comparison to 2019 images

AWARD AMOUNT: \$122,228.05 (\$92,185.91 Grant funds, \$30,042.14 Matching funds)

FUNDER: State of Hawai‘i, Department of Health, Clean Water Branch (from U.S. EPA)

HIGHLIGHTS

- A Kaho‘olawe Island Specialist II (KIRS II) last day was September 29, 2022 and completed the one year position
- 5000 native plants were out planted in the Project Site with 87 volunteers providing 400 hours
- Twenty check dams have been constructed in small gullies



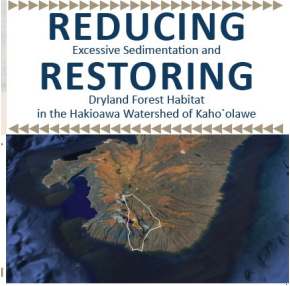
FINANCIAL UPDATE

| <i>SPENT</i> | <i>BILLED</i> | <i>RECEIVED</i> |
|--------------|---------------|-----------------|
| \$92,185.91 | \$92,185.91 | \$92,185.91 |



PROJECT UPDATE: June 1, 2022 to September 30, 2022

1. Six drone images were reacquired in the Project Site to compare with past 2019 imagery. A high definition orthomosaic map was produced from drone images in the Project Site for future restoration reference. A Non-Point Source (NPS) Brochure was updated and printed for distribution.

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|  <p>Drone Image - Note Vegetation along irrigation</p> |  <p>Orthomosaic Drone Image of DOH V Project Site</p> |  <p>NPS Brochure Cover</p> |
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